

## WHAT IS CLAIMED IS:

1. A recycle management method wherein a management number is issued from collection application information received from a collection applicant system, collection request information is generated based on said management number, and collection management, delivery management, disassembly management and cost management of collected products are performed using a network by transmitting said collection request information to the management system of a predetermined collection company.

2. A collection/recycle reception management method for products using a storage device which manages collection application/management information comprising the name, contact information and collection address of a collection applicant, collection application product classification, collection application product quantity, recycle cost payment method, scheduled collection company name and recycle cost estimate, a storage device which manages collection company information comprising the name, contact information and area of operation of each collection company undertaking collection work, and a storage device which manages recycle cost information comprising product classification and product model number, collection cost and disassembly cost for each group of products, wherein:

collection application screen information is sent to said

collection applicant system by collection request information received from a terminal in the collection applicant system;

collection application information comprising the name, contact information and collection address of the collection applicant, collection application product classification, collection application product quantity and recycle cost payment method returned by the collection applicant is received, and stored together with a management number including said collection application information;

said collection company information is searched from said collection application information, the collection company responsible for collection is extracted, said recycle cost information is searched, a recycle cost estimate for the corresponding collection application product is extracted and said extracted collection company information and recycle cost estimate are stored in said storage device;

information relating to said extracted collection company information and recycle cost estimate is returned to said collection applicant system together with the relevant management number; and

the collection application for the collection application product is received and managed.

3. A collection/recycle collection request method for products using a storage device which manages collection

application/management information comprising a management number, name, contact information and collection address of a collection applicant, collection application product classification, collection application product quantity, recycle cost estimate, recycle cost recovery method, scheduled collection company name and collection request date, and a storage device which manages collection company information comprising the name and contact information of the collection company, wherein:

uncollected items are extracted from the collection/management information from a storage status such as absence of collection request date information;

collection company information for the corresponding items is searched using scheduled collection company names in the collection application/management information; and

a collection request is deemed to be complete when collection request information comprising the management number of the corresponding information, name, contact information and collection address of the collection applicant, collection application product classification, collection application product quantity, recycle cost estimate and recycle cost recovery method are transmitted to the contact address of the collection company via a network, and the transmission date of the corresponding collection request information is registered in said storage device.

4. The collection/recycle reception management method for products as defined in Claim 3, using a storage device which manages the management number, name, contact information and collection address of a collection applicant, collection application product classification, collection application product quantity, recycle cost estimate, recycle cost recovery method, collection application/management information for a collection request date, and collection company information comprising the name and contact information of a collection company or recycle cost management information comprising the management number, recycle cost estimate, recycle cost recovery method and recycle cost recovery date, and communication means which acquires payment information comprising payer specific information such as a management number, payment date and payment amount from a financial institution system, wherein:

recycle cost management information is searched using payer specific information such as the management number, payer's name and payer's telephone number contained in payment information from the financial institution system, the management number corresponding to this payment is specified, and a recycle cost recovery date or recycle cost payment contact date relating to the recycle cost management information for the corresponding management number, is registered;

the recycle cost is recovered and a collection request

is extracted from application information for uncollected products, due to a storage situation wherein the recycle cost recovery date or recycle cost payment contact date is registered in recycle cost management information, but collection request date information is not recorded in the collection application/management information; and

collection company information is searched for the corresponding information using scheduled collection company names in the collection application/management information, and a collection request is deemed to be complete when collection request information comprising the management number of the corresponding information, name, contact information and collection address of the collection applicant, collection application product classification, collection application product quantity, recycle cost estimate and recycle cost recovery method are transmitted to the contact address of the collection company via communication means, and the transmission date of the corresponding collection request information is registered in said storage device.

5. A collection item status management method using a storage device which manages collection item status management information such as management number, collection application date, collection date, collection center reception date and collection center disassembly date, an input device such as a

barcode reader, keyboard or mouse which updates information using  
 collection item status information comprising categories for  
 which a management number can be specified and status report  
 information such as a collection complete report specifying  
 5 collection complete, delivery to collection center complete,  
 acceptance by collection center complete and collection center  
 disassembly complete, a report of delivery to the collection  
 center, a report of acceptance by the collection center and  
 a report of collection center disassembly complete, or  
 10 communication means which inputs these automatically, wherein:

the management number which specifies the corresponding  
 application is registered at the time of the collection  
 application;

at all or some of the times when status management of  
 15 collection/recycling may be necessary for delivery to the  
 collection center, acceptance by the collection center and  
 disassembly including re-use of products and , collection item  
 status report information, for example collection complete  
 reports such as collection complete, collection company pickup  
 20 complete, collection center delivery complete, collection  
 center acceptance complete and collection center disassembly  
 complete, and collection company pickup reports, collection  
 center delivery reports, collection center acceptance reports  
 and collection center disassembly complete reports are accepted  
 25 via a network; and

said storage device is searched using the specific categories for information having a management number, and for this information, the status of the collection items is managed by updating the collection item status.

5

6. A collection application item collection status report method for collection/recycling of products using a storage device which manages collection item status management information such as management number, collection application date, collection date, collection company pickup date, collection center delivery date, collection center acceptance date and collection center disassembly date, wherein:

a collection application item status report reception screen is transmitted to the collection applicant system by collection request information from the collection applicant;

the storage device is searched using categories specifying the collection application information such as the management number input on this screen, and status regarding this information is extracted; and

the status of the collection item can be reported to the collection applicant by transmitting the extracted collection applicant item status to the collection applicant system.

7. A collection item collection delivery management method for collection/recycling of products using a storage device which

stores all or part of collection delivery information comprising the management number, name of the collection applicant, contact details, address of collection scheduled collection date, collection date, collection report date, collection company pickup date, and collection pickup report date, collection center delivery date, collection center delivery report date and name of collection center to which delivery is made, wherein:

one or more pieces of information comprising information wherein the collection date is registered but the collection report date is not yet registered, information wherein the collection company pickup date is registered but the collection company pickup report date is not yet registered, and information wherein the collection center delivery date is registered but the collection center delivery report date is not yet registered, is extracted by searching this collection delivery information;

all or part of the collection report information such as the management number, collection company name and collection date, collection company pickup complete report information comprising the management number, collection company name and collection company pickup date, and collection center delivery complete report information comprising the management number, delivery company name, collection center delivery date and name of collection center to which delivery is made, is generated using this collection delivery information, taking the above information as collection complete unreported information,



collection company pickup unreported information and  
collection center delivery unreported information; and

one or more of these pieces of information is transmitted  
to a reception management center via a network, and completion  
5 of collection and delivery for these management numbers is  
registered by registering the collection report date of the  
collection delivery information, collection company pickup  
report date and collection center delivery report date.

10 8. The collection item collection delivery management  
method for collection/recycling of products as defined in Claim  
7, using a storage device which stores all or part of collection  
delivery information comprising the management number, name of  
the collection applicant, contact details, collection address,  
15 scheduled collection date, collection date, collection report  
date, collection company pickup date, collection pickup report  
date, collection center delivery date, collection center  
delivery report date and name of collection center to which  
delivery is made, and collection application item information  
20 such as collection application item type, collection application  
item quantity and collection application item model, wherein:

one or more pieces of information comprising information  
wherein the collection date is registered but the collection  
report date is not yet registered, information wherein the  
25 collection company pickup date is registered but the collection

company pickup report date is not yet registered, and information wherein the collection center delivery date is registered but the collection center delivery report date is not yet registered, is extracted by searching this collection delivery information;

5 all or part of the collection report information together with collection application item information to which additions are made at this base such as the management number, collection company name and collection date, collection company pickup complete report information together with collection application item information to which additions are made at this base such as the management number, collection company name and collection company pickup date, and collection center delivery complete report information together with collection application item information to which additions are made at this base such as the management number, delivery company name, collection center delivery date and name of the collection center to which delivery is made, is generated using this collection delivery information and collection application item information, taking the above information as collection complete unreported information, collection company pickup unreported information and collection center delivery unreported information; and

one or more of these pieces of information is transmitted to a reception management center via a network, and completion of collection and delivery for these management numbers is registered by registering the collection report date of the

collection delivery information, collection company pickup report date and collection center delivery report date.

5 9. A collection/recycling collection item acceptance  
disassembly management method for products using network means  
which can acquire collection application information such as  
a management number, collection application item type and  
collection application item quantity, collection request  
information such as the name of the collection company, and a  
10 storage device which stores collection item management  
information such as this collection application information,  
collection request information and collection item acceptance  
date, wherein:

15 the collection application information and collection  
request information are previously acquired via the network means,  
and registered as collection item management information, and  
when the collection item is accepted, the collection item  
management information is searched using the input management  
number, and acceptance of the collection item is managed by  
20 registering acceptance date information relating to this  
management number.

25 10. The collection/recycling collection item acceptance  
disassembly management method for products as defined in Claim  
9, using network means which can acquire collection application

information such as a management number, collection application item type and collection application item quantity, and collection request information such as the name of the collection company, and a storage device which stores collection item management information such as this collection application information, collection request information and collection item acceptance date, wherein:

the collection application information and collection request information are previously acquired via the network means, and registered as collection item management information, and when the collection item is accepted, the collection item management information is searched using the input management number and acceptance date information relating to this management number is registered, and when this collection item management information contains information categories which still have no input or have incorrect input, a screen suggesting input of the insufficient or incorrect information is automatically displayed; and

the collection/recycling of the collection item having this management number is managed by registering or updating the information in the storage device using the information input on this screen.

11. The collection/recycling collection item acceptance disassembly management method for products as defined in Claim

9, using network means which can acquire collection application information such as a management number, collection application item type and collection application item quantity, and collection request information such as the name of the collection company, and a storage device which stores collection item management information such as this collection application information, collection request information and collection item acceptance date, wherein:

the collection application information and collection request information are previously acquired via the network means, and registered as collection item management information, and when the collection item is accepted, the collection item management information is searched using the input management number; and

when collection item management information for this management number does not exist, a screen suggesting input of collection item management information is automatically displayed, and by registering this information in a storage device by information input on the screen, the collection/recycling of the collection item having this management number is managed, collection/recycling is more highly computerized and efficiency is improved.

12. A collection/recycling collection item acceptance disassembly management method for products using a storage device

which stores collection application information such as management number, collection application item type and collection application item quantity, collection request information such as scheduled collection date and name of collection company, and collection item management information comprising the collection item acceptance date, and the disassembly date comprising re-use of products or parts in the collection item, wherein:

collection management information is searched using the management number for the collection item when the collection item is introduced to the disassembly line comprising re-use of products and parts, or when it is decided to perform disassembly comprising re-use products and parts, and the disassembly comprising re-use of products and parts in the collection item is managed by registering the disassembly date in this information.

13. A collection/recycling collection item acceptance disassembly management method for products using a storage device which stores collection application information such as management number, collection application item type and collection application item quantity, collection request information such as scheduled collection date and name of collection company, and collection item management information comprising the collection item acceptance date, collection item

acceptance report date, collection item disassembly date and collection item disassembly report date, wherein:

one or more pieces of information comprising information for which the collection item acceptance date is registered but the collection item acceptance report date is not yet registered, and information for which the collection item disassembly date is registered but the collection item disassembly report date is not yet registered, is extracted by searching the collection item management information;

all or part of the acceptance complete report information such as the management number, name of the collection center and acceptance date, and the disassembly complete report information such as the management number, name of the collection center and disassembly date is generated using this collection item management information, taking the above information as collection item acceptance complete unreported information and collection item disassembly complete unregistered information and

one or more of these pieces of information is transmitted to the reception management center via the network, and completion of acceptance and disassembly for information having this management number is registered by registering the collection item acceptance report date and the collection item disassembly report date in the collection item management information.

14. The collection/recycling collection item acceptance  
disassembly management method for products as defined in Claim  
13, using a storage device which stores collection application  
information such as management number, collection application  
item type and collection application item quantity, collection  
request information such as scheduled collection date and name  
of collection company, and collection item management  
information comprising the collection item acceptance date,  
collection item acceptance report date, collection item  
disassembly date and collection item disassembly report date,  
wherein:

one or more pieces of information comprising information  
for which the collection item acceptance date is registered but  
the collection item acceptance report date is not yet registered,  
and information for which the collection item disassembly date  
is registered but the collection item disassembly report date  
is not yet registered, is extracted by searching the collection  
item management information; and

all or part of the acceptance complete report information  
such as the management number, name of the collection center  
and acceptance date, collection application item information  
to which information may be added at this base, disassembly  
complete report information such as the management number, name  
of the collection center and disassembly date, and collection  
application item information to which information may be added



at this base, is generated using this collection item management information, taking the above information as collection item acceptance complete unreported information and collection item disassembly complete unregistered information; and

5 one or more of these pieces of information is transmitted to the reception management center via the network, and completion of acceptance and disassembly for information having this management number is registered by registering the collection item acceptance report date and the collection item disassembly report date in the collection item management information.

10 15. A collection/recycling recycle rate management method for products using a storage device which stores incoming information such as incoming date, incoming weight and category, outgoing information such as outgoing date, outgoing content, outgoing weight and outgoing classification, and collection item information such as management number, model, category and weight, means for reading the management number of the incoming item, and means for measuring the weight of the outgoing item, wherein:

15 20 the collection item information is searched using the read management number when disassembly is performed on the collection acceptance item, and the category and weight are extracted, and stored in a storage device;

25 the weight is measured at the outgoing stage and stored in the storage device together with the outgoing category;

the storage device is searched automatically at a predetermined command at a predetermined interval, and the incoming and outgoing results relating to the specified or predetermined interval are extracted; and

the recycle rate for the interval concerned is managed using the sum total of incoming weight during the extracted interval, and the sum total of weight relating to items which, of the outgoing weight in the interval concerned, have a suitable outgoing classification or outgoing content for recycling.

16. A collection/recycling recycle rate management method for products, comprising a storage device which stores incoming information such as incoming date, incoming weight and category, acceptance/outgoing information such as outgoing management number, outgoing date, outgoing content, outgoing weight and outgoing classification, and subcontractor result information comprising outgoing management number, report date and recycle results, input/registration means which automatically acquires/registers subcontractor result information via a network from a subcontractor or uses an input device such as a keyboard, means which reads the management number of the incoming item and means which measures the weight of the outgoing item, wherein:

the collection item information is searched using the read management number when disassembly is performed on the collection

acceptance item, the category and weight are extracted, and stored in the storage device;

the weight is measured at the outgoing stage, and registered and stored in the storage device, and subcontractor result information acquired via the network from the subcontractor is registered in the storage device;

the acceptance incoming information and subcontractor result information in the storage device is automatically searched at a predetermined command or at a predetermined interval, and acceptance and outgoing results related to the specified or predetermined interval are extracted;

the sum total of the acceptance weight in the extracted period, the sum total of information relating to outgoing classification or outgoing content suitable for recycling in the outgoing weight in the same interval, and the weight relating to information having suitable outgoing classification or outgoing content for subcontracting in the outgoing weight during the same period, are summed by computing the weight which was actually recycled in the corresponding weight using subcontractor result information where subcontracting has the same number as the outgoing management number in the outgoing results or the same content, and the recycle rate in this interval is managed by using these sum totals.

17. A collection/recycle management method as defined

in Claim 1, wherein needs information for re-use products and parts is collected from the parts center system, and collection/recycling is performed comprising the re-use of products and parts by extracting re-use products and re-use parts based on said needs information in the collection center system.

18. A support method for the re-use of products and parts in the collection/recycling of products, using a storage device which stores product specification information comprising manufacturer name, model, year and specification, product composition information comprising parts model and quantity, parts specification information comprising parts model and parts specification, required re-use products/parts information comprising the name of a parts center, required product specification, required product model, required product year, required parts model, required parts specification, required quantity and desired price, parts center information comprising the name of the parts center, its location and contact details, and collection item management information for managing the product model and quantity of collection items which have been accepted or are scheduled to be accepted, together with an output device, wherein:

said product specification information, product composition information, parts specification information, required re-use products/parts information and parts center

information are input from a reception management center system, or collection item management information receives input from the reception management center system when the collection items are received; and

5           required re-use products contained in the collection items are extracted by searching the collection item management information using said required re-use product information, or the parts composition contained in the collection items is extracted from the collection item management information and  
10 parts composition information, the products having the required re-use parts contained in the collection items are extracted by searching the parts composition using the required re-use parts information, and extracted products or parts which have a possibility of re-use are clearly indicated by outputting these  
15 extracted, required re-use products and products from which parts can be obtained, from the output device.

19. A support method for the re-use of products and parts in the collection/recycling of products, using a storage device  
20 which stores re-use item management information comprising a re-use item management number, re-use item model, quantity, sales price, name of a parts center to which the sale is made, name of collection center in which extraction of re-use items is made, disassembly date, delivery date and delivery report date, and  
25 network means which transmits the re-use item extraction

information to a reception management center system, wherein:

when collection items are disassembled, the required disassembly is performed on products and parts which have re-use needs according to instructions, and a re-use item management number is individually assigned;

re-use products and re-use parts are registered in the storage device according to their model, quantity, sales price, name of collection center in which extraction of re-use items is made, name of the parts center to which they are sold and disassembly date together with a re-use item management number attached to the product or part, and re-use item extraction information such as the name of the parts center to which they are sold, re-use item model and quantity is generated using this information, and

the re-use product or part is managed by transmitting one or more pieces of this information to the reception management center via the network means.

20. A support method for the re-use of products and parts in the collection/recycling of products, using a storage device which stores re-use item management information comprising a re-use item management number, re-use item model, quantity, sales price, name of a parts center to which the sale is made, name of collection center in which extraction of re-use items is made, disassembly date, delivery date and delivery report date, and

parts center information comprising the name of the parts center, location and contact details, an output device, a device for inputting the

re-use item management number, and network means which  
 5 transmits re-use item delivery information to the parts center, wherein:

the re-use item management information in the storage device is searched using the re-use item management number input from the input device, the parts center information in the storage  
 10 device is searched using the name of the parts center to which the item is sold in the re-use item management information, and the contact details of the parts center are extracted;

delivery instructions are issued by outputting the delivery address for the re-use items on a screen or delivery  
 15 form using this re-use item management information and parts center information; and

the parts center system is informed of the delivery by transmitting this information via network means, and the delivery of the re-use items in this information is managed by storing  
 20 the delivery date in this information.

21. A support method for the re-use of products and parts in the collection/recycling of products, using a storage device which stores re-use item management information comprising a  
 25 re-use item management number, re-use item model, quantity, sales

price, name of a parts center to which the sale is made, name of collection center in which extraction of re-use items is made, processing date, delivery date and delivery report date, wherein:

said storage device is searched at a predetermined command or at a certain interval, and information for which the delivery date is registered but the delivery report date is not registered, is extracted;

re-use item delivery information is generated comprising the re-use item management number, re-use item model, quantity, sales price, name of the parts center to which delivery is made, name of collection center in which extraction of re-use items is made, and delivery date, using this information, where the above information is delivery unreported information; and

one or more pieces of this information are transmitted to the reception management center via a network, and a re-use item delivery report is made regarding information having this re-use item management number by registering the delivery report date.

22. A support method for the re-use of products and parts in the collection/recycling of products, using a storage device which stores re-use item management information comprising a re-use item management number, re-use item model, quantity, sales price, name of a name of collection center to which the sale is made, delivery report date, cost invoice date and cost



collection date, and a device which receives re-use item delivery information from a collection center system comprising the name of the collection center, re-use item management number, re-use item model, quantity, sales price, name of the parts center to which items are sold and delivery date, wherein:

the re-use item delivery information transmitted by the collection center system is received, and provision of the re-use item from the collection center to the parts center is managed by storing the name of the collection center, re-use item management number, re-use item model, quantity, sales price, name of the parts center to which the item is sold and delivery report date in the storage device.